

Title (en)

Differential device for a four-wheel drive vehicle.

Title (de)

Differentialgetriebe für ein Fahrzeug mit Allradantrieb.

Title (fr)

Différentiel pour véhicule à quatre roues motrices.

Publication

EP 0387053 B1 19940713 (EN)

Application

EP 90302470 A 19900308

Priority

JP 5919589 A 19890310

Abstract (en)

[origin: EP0387053A2] A differential device having a central differential (9) coaxial with a front axle (36) and a secondary differential (4). The central differential (9) has a differential case (40), a pinion shaft (41), a pair of pinions (42) rotatably mounted on the pinion shaft and first and second side gears (44, 43) engaged with the pinions respectively. The pinion shaft (41) is operatively connected to an output member (22) of the transmission (3). The secondary differential (4) has a differential case (30) operatively connected to the first side gear (44) of the central differential, a pinion (32) and a pair of side gears (33, 34) each engaged with the pinion and secured to one of the front axles (35, 36) respectively. The second side gear (43) of the central differential is operatively connected to a transfer device (5) for rear wheel drive.

IPC 1-7

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IPC 8 full level

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CPC (source: EP US)

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Cited by

CN104121349A; EP1205336A3; EP1136301A3; CN1064607C; GB2289451A; GB2289451B; DE4023797A1

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